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Basic Rack Power Distribution Unit

AP9559

Installation





This manual is available in English on the enclosed CD.

Dieses Handbuch ist in Deutsch auf der beiliegenden CD-ROM verfügbar.

Este manual está disponible en español en el CD-ROM adjunto.

Ce manuel est disponible en français sur le CD-ROM ci-inclus.

Questo manuale è disponibile in italiano nel CD-ROM allegato.

Instrukcja Obsługi w języku polskim jest dostępna na CD.

O manual em Português está disponível no CD-ROM em anexo.

Bu kullanım kılavuzunun Türkçe'si, ilişikte gönderilen CD içerisinde mevcuttur.

Инструкция по использованию на русском языке прилагается на диске (CD).

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Before You Begin

Safety and grounding information



Read the following information before installing or operating your APC Power Distribution Unit (PDU).

- This PDU is intended for indoor use only.
- Do not install this PDU where excessive moisture or heat is present.
- Never install any wiring, equipment, or PDU during a lightning storm.
- Plug this PDU into a three-wire, grounded power outlet only. The power outlet must be connected to appropriate branch circuit/mains protection (fuse or circuit breaker). Connection to any other type of power outlet may result in a shock hazard.
- Use only the supplied brackets for mounting.
- Do not use an additional extension cord or adapter with the primary power cord.
- Do not work alone under hazardous conditions.
- Check that the power cord, plug, and socket are in good condition.
- To reduce the risk of electric shock when you cannot verify grounding, disconnect the PDU from the power outlet before installing or connecting equipment. Reconnect it to the power outlet only after you have made all connections.
- Pluggable equipment includes a protective earth connector, which carries the leakage current from the load devices (computer equipment). Do not exceed a total leakage current of 3.5 mA.
- Do not handle any kind of metallic connector before the power has been removed.
- Use one hand, whenever possible, to connect or disconnect signal cables to avoid a possible shock from touching two surfaces with different grounds.
- This unit does not have any user-serviceable parts. Repairs are to be performed only by factory-trained service personnel.
- Always install the equipment as shown in the Installation Manual.

How to Install the Rack PDU

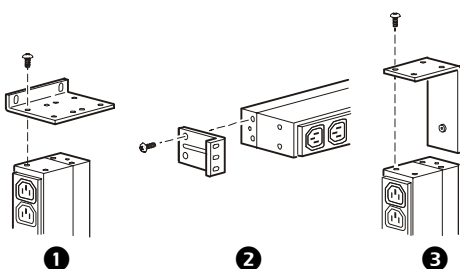
Mounting options

You can use choose three different options for mounting your PDU in an enclosure, depending on your preferences and the type of enclosure. All options require that you first attach mounting brackets to the PDU.

- Vertical mounting
 - For any standard 19-inch rack, you can attach the brackets to the enclosure using the screws provided.
 - For a NetShelter VX enclosure (AR2100 series), you can mount the brackets to the enclosure by snapping them into place (toolless mounting).
- Horizontal mounting: For any NetShelter enclosure, you can mount the brackets to the enclosure using the screws provided. Horizontal mounting uses 1 U-space.

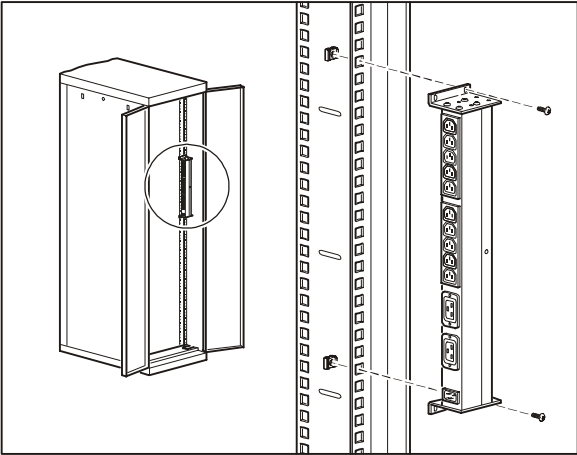
Attaching brackets to the PDU

1. Decide where and how you will mount the PDU in the enclosure. (See the figures on the following pages.)
2. Choose the appropriate mounting brackets, as shown below, for the option you chose:
 - **1** for 19-inch vertical mounting
 - **2** for horizontal mounting
 - **3** for toolless mounting
3. Attach the brackets to the unit using four flat-head Phillips screws (provided) for each bracket.

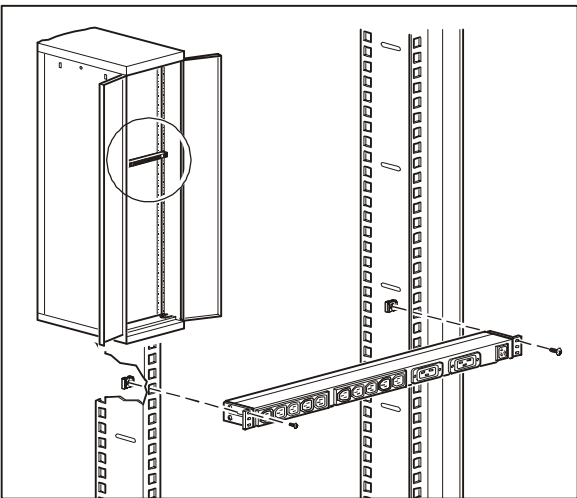


Mounting the PDU (using screws)

Vertical-mount (19-inch)



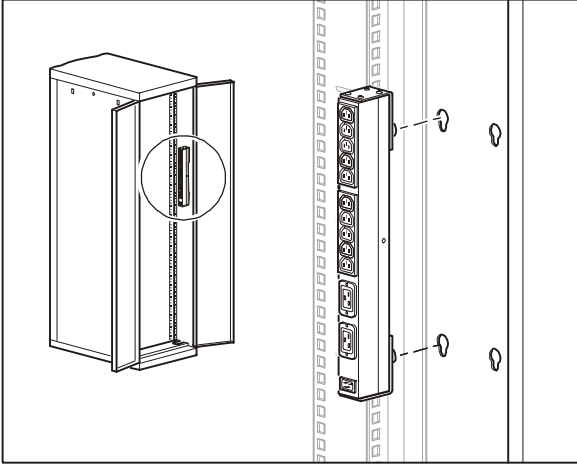
Horizontal-mount (1 U-space)



Mounting the PDU (toolless mounting)

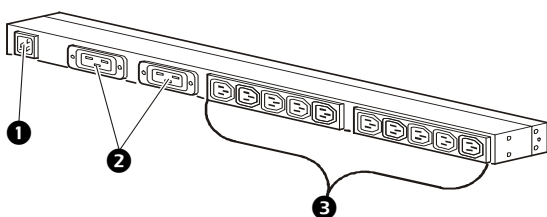
This option for mounting the PDU is available for NetShelter VX enclosures only.

1. Holding the PDU in the direction shown below, slide the mounting pegs into the holes provided in the channel in the rear panel of the enclosure.
2. Snap the PDU into place by pushing it downward until it locks into position.



Operation

Overview



- | | | |
|----------|---------|--|
| 1 | Input | IEC-320-C20 input connector (16 A @ 240 V; 20 A @ 120 V) used with detached power cord (supplied). |
| 2 | Outlets | Two (2) IEC-320-C19 outlets |
| 3 | Outlets | Ten (10) IEC-320-C13 outlets |

Specifications

Item	Specification
Power	
Input voltage range:	120–240 V
Maximum current draw:	208 V @ 12.8 A (UL, CUL) 120 V @ 16 A (UL, CUL) 240 V @ 16 A (VDE)
Physical	
Dimensions (L × W × D):	17.60 × 1.75 × 2.25 in (44.70 × 4.45 × 5.72 cm)
Weight:	2.15 lb (0.98 kg)
Shipping weight:	5.20 lb (2.36 kg)
Environmental	
Elevation (above MSL): Operating Storage	0 to 10,000 ft (0 to 3000 m) 0 to 50,000 ft (0 to 15 000m)
Temperature: Operating Storage	32 to 113° F (0 to 45° C) –13 to 149° F (–25 to 65° C)
Relative humidity: Operating Storage	0 to 95%, non-condensing 0 to 95%, non-condensing
Approvals/Standards	
UL, CUL, VDE	

Warranty and Service

Limited warranty

APC warrants the Basic Rack PDU to be free from defects in materials and workmanship for a period of two years from the date of purchase. Its obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. This warranty does not apply to equipment that has been damaged by accident, negligence, or misapplication or has been altered or modified in any way. This warranty applies only to the original purchaser.

Obtaining service

To obtain support for problems with your Basic Rack PDU:

1. Note the serial number (located on the rear of the Rack PDU) and date of purchase.
2. Contact Customer Support at a phone number on the back cover of this document. A technician will try to help you solve the problem by phone.
3. If you must return the product, the technician will give you a return material authorization (RMA) number. If the warranty expired, you will be charged for repair or replacement.
4. Pack the unit carefully. The warranty does not cover damage sustained in transit. Enclose a letter with your name, address, RMA number and daytime phone number; a copy of the sales receipt; and a check as payment, if applicable.
5. Mark the RMA number clearly on the outside of the shipping carton.
6. Ship by insured, prepaid carrier to the address provided by the Customer Support technician.

Warranty limitations

Except as provided herein, APC makes no warranties, express or implied, including warranties of merchantability and fitness for a particular purpose. Some jurisdictions do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

Except as provided above, in no event will APC be liable for direct, indirect, special, incidental, or consequential damages arising out of the use of this product, even if advised of the possibility of such damage.

Specifically, APC is not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, costs of substitutes, claims by third parties, or otherwise. This warranty gives you specific legal rights and you may also have other rights, which vary according to jurisdiction.

Life-Support Policy

General policy

American Power Conversion (APC) does not recommend the use of any of its products in the following situations:

- In life-support applications where failure or malfunction of the APC product can be reasonably expected to cause failure of the life-support device or to affect significantly its safety or effectiveness.
- In direct patient care.

APC will not knowingly sell its products for use in such applications unless it receives in writing assurances satisfactory to APC that (a) the risks of injury or damage have been minimized, (b) the customer assumes all such risks, and (c) the liability of American Power Conversion is adequately protected under the circumstances.

Examples of life-support devices

The term *life-support device* includes but is not limited to neonatal oxygen analyzers, nerve stimulators (whether used for anesthesia, pain relief, or other purposes), autotransfusion devices, blood pumps, defibrillators, arrhythmia detectors and alarms, pacemakers, hemodialysis systems, peritoneal dialysis systems, neonatal ventilator incubators, ventilators (for adults and infants), anesthesia ventilators, infusion pumps, and any other devices designated as “critical” by the U.S. FDA.

Hospital-grade wiring devices and leakage current protection may be ordered as options on many APC UPS systems. APC does not claim that units with this modifications are certified or listed as hospital-grade by APC or any other organization. Therefore these units do not meet the requirements for use in direct patient care.



APC Worldwide Customer Support

Customer support for this or any other APC product is available at no charge in any of the following ways:

- Visit the APC Web site to access documents in the APC Knowledge Base and to submit customer support requests.
 - **www.apc.com** (Corporate Headquarters)
Connect to localized APC Web sites for specific countries, each of which provides customer support information.
 - **www.apc.com/support/**
Global support searching APC Knowledge Base and using e-support.
- Contact an APC Customer Support center by telephone or e-mail.
 - Regional centers:

Direct InfraStruXure Customer Support Line	(1)(877)537-0607 (toll free)
APC headquarters U.S., Canada	(1)(800)800-4272 (toll free)
Latin America	(1)(401)789-5735 (USA)
Europe, Middle East, Africa	(353)(91)702000 (Ireland)
Japan	(0) 3 5434-2021
Australia, New Zealand, South Pacific area	(61) (2) 9955 9366 (Australia)

- Local, country-specific centers: go to **www.apc.com/support/contact** for contact information.

Contact the APC representative or other distributor from whom you purchased your APC product for information on how to obtain local customer support.

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